



Characteristics

SD-3 is a medium-low temperature powder with heavy silicone treatment, suitable for elements with a heated length of no longer than 50cm. Elements stuffed with this material are proposed to be annealed at 420°C for 15 minutes.

Chemical analysis (%)

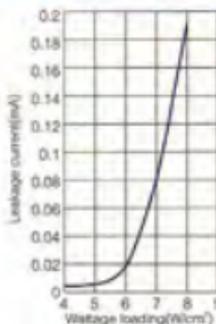
| | | | | |
|-------|------|--------------------------------|--------------------------------|------------------|
| MgO | CaO | Al ₂ O ₃ | Fe ₂ O ₃ | SiO ₂ |
| ≥94.0 | ≤1.5 | ≤0.9 | ≤0.7 | ≤3.5 |

Particle distribution

| | | | | | | | |
|-------------|------|-------|-------|-------|------|------|------|
| Mesh | +40 | +60 | +80 | +140 | +200 | +325 | -325 |
| Dia(μm) | +425 | +250 | +180 | +106 | +75 | +45 | -45 |
| Quantity(%) | 0-1 | 24-38 | 16-28 | 18-30 | 7-13 | 5-11 | 0-8 |

The percentages of +425 μm and -45 μm will be strictly within the respective ranges while the others could be out of the above mentioned ranges for the sake of desired tap density and flow rate.

Electrical property



Testing condition:
 Tube—Incoly 840
 Reduction—φ8.0mm—φ6.6mm
 Wire—NiCr20, φ0.3mm
 Helix—φ2.2mm
 Heated length—43.0cm—47.0cm
 Resistance(Ac rated)—28.0—33.0
 Energized period—15 minutes

Remark: For users' reference, the chart here shows typical values of performance by this type of powder.

1984 Tap density

2.28-2.37g/cm³

Flow

Ford cup no.3(φ 2.165mm-2.185mm):160-240s/100g
 Ford cup no.4(φ 3.97mm-4.01mm):34-40s/100g

Packing

25 kg in a plastic plaited bag; or 25 kg in a carton and 2 tons on a pallet. Special packing is available on requirement.

Security and storage

Electrical grade magnesium oxide is a non-toxic product, but with some dust. Masks and gloves are proposed to use during operation.

Electrical grade magnesium oxide should be stored in dry places, and are suggested to be used out within 12 months after delivery.



Characteristics

SD-6 is a medium-low temperature powder with heavy silicone treatment, mainly used in high quality elements of low wattage loading or liquid heating elements. Elements stuffed with this material do not require annealing or sealing but with perfect moisture proof performance.

Chemical analysis (%)

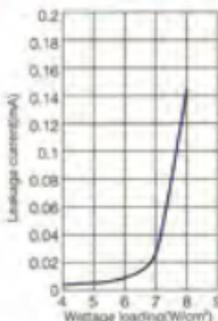
| | | | | |
|-------|------|--------------------------------|--------------------------------|------------------|
| MgO | CaO | Al ₂ O ₃ | Fe ₂ O ₃ | SiO ₂ |
| ≥94.0 | ≤1.5 | ≤0.9 | ≤0.5 | ≤2.5 |

Particle distribution

| | | | | | | | |
|-------------|------|-------|-------|-------|------|------|------|
| Mesh | +40 | +60 | +80 | +140 | +200 | +325 | -325 |
| Dia(μm) | +425 | +250 | +180 | +106 | +75 | +45 | -45 |
| Quantity(%) | 0-1 | 24-38 | 16-28 | 18-30 | 7-13 | 5-11 | 0-8 |

The percentages of +425 μm and -45 μm will be strictly within the respective ranges while the others could be out of the above mentioned ranges for the sake of desired tap density and flow rate.

Electrical property



Testing condition:

- Tube—Copper coated iron
- Reduction— $\phi 6.0\text{mm} \rightarrow \phi 6.6\text{mm}$
- Wire—0025AS, $\phi 0.3\text{mm}$
- Hole— $\phi 2.2\text{mm}$
- Heated length—29cm-32cm
- Resistance(As rolled)—330-380
- Energized period—15 minutes

Remark: For user's reference, the chart here shows typical values of performance by this type of powder.

Tap density

2.28-2.37g/cm³

Flow

Ford cup no.3($\phi 2.165\text{mm}-2.185\text{mm}$): 180-240s/100g
Ford cup no.4($\phi 3.97\text{mm}-4.01\text{mm}$): 34-40s/100g

Packing

25 kg in a plastic plaited bag; or 25 kg in a carton and 2 tons on a pallet. Special packing is available on requirement.

Security and storage

Electrical grade magnesium oxide is a non-toxic product, but with some dust. Masks and gloves are proposed to use during operation.

Electrical grade magnesium oxide should be stored in dry places, and are suggested to be used out within 12 months after delivery.



Characteristics

SD-99 is a low temperature powder with heavy silicone treatment, mainly used in quality elements of low wattage loading or liquid heating elements. Elements stuffed with this material do not require annealing or sealing but with perfect moisture proof performance.

Chemical analysis (%)

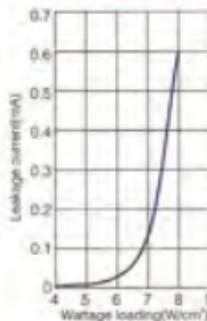
| | | | | |
|--------------|-------------|--|--|--------------------------|
| MgO ≥93.0 | CaO ≤2.5 | Al ₂ O ₃ ≤0.9 | Fe ₂ O ₃ ≤0.8 | SiO ₂ ≤2.5 |
|--------------|-------------|--|--|--------------------------|

Particle distribution

| | | | | | | | |
|-------------|------|-------|-------|-------|------|------|------|
| Mesh | +40 | +60 | +80 | +140 | +200 | +325 | -325 |
| Dia(μm) | +425 | +250 | +180 | +106 | +75 | +45 | -45 |
| Quantity(%) | 0-1 | 24-38 | 16-28 | 18-30 | 7-13 | 5-11 | 0-8 |

The percentages of +425 μm and -45 μm will be strictly within the respective ranges while the others could be out of the above mentioned ranges for the sake of desired tap density and flow rate.

Electrical property



Testing condition:

- Tube—Copper coated iron
- Reduction—φ 8.0mm → φ 6.6mm
- Wire—(O)25AS, φ 0.3mm
- Helix—φ 2.2mm
- Heated length—29cm-32cm
- Resistance(As rolled)—33Ω-38Ω
- Energized period—15 minutes

Remark: For users' reference, the chart here shows typical values of performance by this type of powder.

Tap density

2.25-2.35g/cm³

Flow

Ford cup no.3(φ 2.165mm-2.185mm):160-240s/100g
Ford cup no.4(φ 3.97mm-4.01mm):34-40s/100g

Packing

25 kg in a plastic plated bag; or 25 kg in a carton and 2 tons on a pallet. Special packing is available on requirement.

Security and storage

Electrical grade magnesium oxide is a non-toxic product, but with some dust. Masks and gloves are proposed to use during operation.

Electrical grade magnesium oxide should be stored in dry places, and are suggested to be used out within 12 months after delivery.



Characteristics

SD-99A is a medium temperature powder with light silicone treatment, mainly used in air heating elements of medium wattage loading. It can stand 1050°C annealing and requires immediate sealing.

Chemical analysis (%)

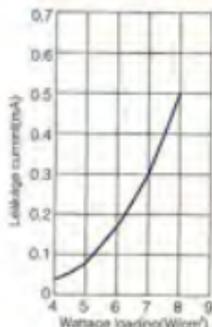
| | | | | |
|-------|------|--------------------------------|--------------------------------|------------------|
| MgO | CaO | Al ₂ O ₃ | Fe ₂ O ₃ | SiO ₂ |
| ≥94.0 | ≤1.5 | ≤0.9 | ≤0.7 | ≤2.5 |

Particle distribution

| | | | | | | | |
|-------------|------|-------|-------|-------|------|------|------|
| Mesh | +40 | +60 | +80 | +140 | +200 | +325 | -325 |
| Dia(um) | +425 | +250 | +180 | +106 | +75 | +45 | -45 |
| Quantity(%) | 0-1 | 16-30 | 18-30 | 22-32 | 6-14 | 6-14 | 0-8 |

The percentages of +425 μm and -45 μm will be strictly within the respective ranges while the others could be out of the above mentioned ranges for the sake of desired tap density and flow rate.

Electrical property



Testing condition:
 Tube—Incoly 840
 Reduction—φ8.0mm→φ5.6mm
 Wire—1#80C20, φ0.3mm
 Helix—φ2.2mm
 Heated length—43.0cm-47.0cm
 Resistance(Ac rolled)—280-310
 Energized period—15 minutes

Remark: For users' reference, the chart here shows typical values of performance by this type of powder.

Tap density

2.28-2.37g/cm³

Flow

Ford cup no.3(φ2.165mm-2.165mm):135-175s/100g
Ford cup no.4(φ3.97mm-4.01mm):31-37s/100g

Packing

25 kg in a plastic plaited bag; or 25 kg in a carton and 2 tons on a pallet. Special packing is available on requirement.

Security and storage

Electrical grade magnesium oxide is a non-toxic product, but with some dust. Masks and gloves are proposed to use during operation.

Electrical grade magnesium oxide should be stored in dry places, and are suggested to be used out within 12 months after delivery.



Characteristics

SD-8 is a high temperature powder with light silicone treatment, mainly used in air heating elements of medium or high wattage loading. It can stand 1050°C annealing and requires immediate sealing.

Chemical analysis (%)

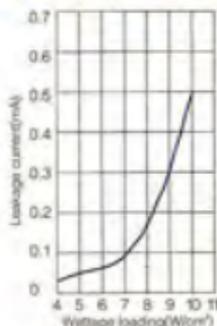
| | | | | |
|-------|------|--------------------------------|--------------------------------|------------------|
| MgO | CaO | Al ₂ O ₃ | Fe ₂ O ₃ | SiO ₂ |
| ≥94.0 | ≤1.5 | ≤0.9 | ≤0.7 | ≤2.5 |

Particle distribution

| | | | | | | | |
|-------------|------|-------|-------|-------|------|------|------|
| Mesh | +40 | +60 | +80 | +140 | +200 | +325 | -325 |
| Dia(μm) | +425 | +250 | +190 | +106 | +75 | +45 | -45 |
| Quantity(%) | 0-1 | 16-30 | 18-30 | 22-32 | 5-14 | 6-14 | 0-8 |

The percentages of +425 μm and -45 μm will be strictly within the respective ranges while the others could be out of the above mentioned ranges for the sake of desired tap density and flow rate.

Electrical property



Testing condition:
 Tube—Incoly 640
 Reduction—→5.0mm→6.6mm
 Wire—Ni80Cr20, φ0.3mm
 Helix—φ2.2mm
 Heated length—43.0cm-47.0cm
 Resistance(As rolled)—280-330
 Energized period—15 minutes

Remark: For users' reference, the chart here shows typical values of performance by this type of powder.

Tap density

2.28-2.37g/cm³

Flow

Ford cup no.3(φ 2.165mm-2.185mm):135-175s/100g
 Ford cup no.4(φ 3.97mm-4.01mm):31-37s/100g

Packing

25 kg in a plastic plated bag; or 25 kg in a carton and 2 tons on a pallet. Special packing is available on requirement.

Security and storage

Electrical grade magnesium oxide is a non-toxic product, but with some dust. Masks and gloves are proposed to use during operation.

Electrical grade magnesium oxide should be stored in dry places, and are suggested to be used out within 12 months after delivery.